# System Requirements

Please ensure your system meets the following minimum requirements before beginning the installation process.

## EFI MarketDirect Cross Media

### Hardware and Software

<table>
<thead>
<tr>
<th><strong>Hardware</strong></th>
<th><strong>Requirement</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>x64- processor with at least 2.4 GHz and 8 or more virtual cores</td>
</tr>
<tr>
<td>RAM</td>
<td>32 GB</td>
</tr>
<tr>
<td>Hard disk</td>
<td>500+ GB (failsafe storage with backup strategy recommended)</td>
</tr>
</tbody>
</table>

### Accessibility

- Fixed IP-address with 100Mbit download and upload Internet connection (or higher)
- Remote Desktop protocol (RDP) access for the DirectSmile network
- TCP Ports In: 80, 443
- TCP Ports Out: 20-21, 25, 80, 443, 465
- Public SSL certificate (not included)

### Operating System

- Windows Server 2012 R2 through Windows Server 2019

**Note**: Cross Media no longer supports Windows Server 2008.

### Required Components

#### Not Included:
- MS SQL 2012 Web Edition or higher

#### Included (installed as part of the server solution):
- MS Access database engine 2007 and 2010
- MS .NET Framework 3.5
- MS .NET Framework 4.8
- MS Silverlight 5
- MS Silverlight SDK 4/5
- MS Visual C++ 2005 Redistributable Package
- MS Visual C++ 2008 Redistributable Package
- MS Visual C++ 2010 Redistributable Package
- MS Visual C++ 2013 Redistributable Package
- MS Visual C++ 2015-2019 Redistributable Package
- Redis

### Windows Browser for Designer

- For Cross Media Pro
- Classic Campaign Designer

- Chrome, Internet Explorer 11 or later, Firefox, Chrome, Edge
- Internet Explorer 11 or later (not including Edge), Firefox ESR 52.9.0 or earlier

### Mac Browser for Designer

- For Cross Media Pro
- Classic Campaign Designer

- Chrome, Safari, Firefox
- Safari 11.0 or earlier, Firefox ESR 52.9.0 or earlier

### Email/SMS Distribution

- EFI does not provide Email and SMS distribution capabilities. We recommend Sendgrid for Email and Clickatell for SMS distribution.